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Gopikrishna V
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S6 CSA

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Program
import requests
from collections import Counter
class req_functions():
  def averageWordLength(text):
    words=text.split()
    Tlen=sum(len(word) for word in words)
    if len(words)==0:
      return 0
    else:
      return Tlen/len(words)
  def modeT3(text):
    words=text.split()
    count=Counter(words)
    return count.most_common(3)
  def synonymAPI(word):
    url=f"https://api.datamuse.com/words?rel_syn={word}"
    response=requests.get(url)
    if response.status_code==200:
      data=response.json()
      return [item['word'] for item in data]
    else:
      print("Failed Retrieval\n")
      return []
  def wordReplaceSuggest(textR,overusedW):
    suggestions={}
    for wordx in overusedW:
      synonyms=req_functions.synonymAPI(wordx)
      if synonyms:
        suggestions[wordx]=synonyms[0]
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else:
        suggestions[wordx]="NO REPLACEMENTS"
    return suggestions
print('\nAVERAGE WORD LENGTH FINDER\n')
text=input("String >> ")
avgLen=req functions.averageWordLength(text)
print("Average Word Length = ", avgLen)
print('\nTOP THREE FREQUENT WORDS FINDER\n')
text=input("String >> ")
for word,count in req functions.modeT3(text):
  print(f"{word} :: {count}")
print('\nREPLACEMENT SUGGESTOR\n')
textS=input("String >> ")
wordS=input("Overused Words List >> ")
overusedList=wordS.split()
replaceW=req_functions.wordReplaceSuggest(textS,overusedList)
for wordR,replaceW in replaceW.items():
  print(f"{wordR} >>> {replaceW}")
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Output